



SR-i800

Motorcycle Security System

INSTALLATION MANUAL AND USER'S GUIDE



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Encoding a Transceiver

Note: The transceivers are programmed from the factory. Encoding is only necessary should the transceiver lose its code and will not arm or disarm the security system or if a replacement remote is obtained.

1. Unplug HAR-1 from the MCM-9 and plug it back in, the siren will chirp 2 times and the lights will flash 2 times.
2. Within **6 seconds** of plugging in the HAR-1, turn ignition switch "ON" and "OFF" 3 times.
3. If step 2 is done correctly and within the time allowed, the siren will chirp 2 times and the lights will flash an additional 2 times to confirm that the system is in "Learn Mode".
4. Press and hold the button until the system chirps 2 times and the lights flash 2 times to indicate that the MCM has learned the code.
5. Turn ignition "ON" and "OFF" to exit "Learn Mode".

****It is not recommended to clip the remote to your ignition key. Attaching the remote to your key may damage the remote and/or scratch your bike****

Standard Features

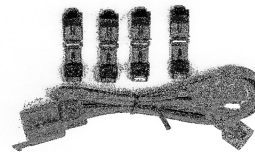
- Ultra low power drain MCM
- Built-in Analog Devices accelerometer
- Remote sensor control
- Battery safeguard with “sleep mode”
- Violation display
- Selectable auto/ manual arming / disarming
- Flashes signal lights
- Integrated 120 dB multi-tone siren
- Remote panic feature
- Soft chirp arming
- Three-Stage Perimeter Sensor
- Selectable Perimeter Sensor arming
- Flash input for diagnostics and possible future upgrades
- Programmable override code to disarm alarm
- Built in back up battery

Components List

*** Remote Transceiver**



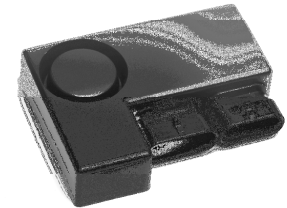
Generic Installation Kit (GEN-1)



RFID Module



MCM (Main Control Module)



Accessory Harness (ACC-1)



Main Harness (HAR-1)



*This remote transceiver uses a CR2032 battery. To replace the battery pry the cases apart using a flathead screwdriver at the small end of the remote. Then slide the screwdriver towards the button until the case halves come apart. Now pull the circuit board out of the rear case half and replace the battery. Last, snap the circuit board back into the rear case and the two case halves back together and you're done.

Planning the Installation

It is very important that before starting the installation of the security system, you carefully read the installation instructions and spend time planning the installation. By planning ahead you will be able to select the best approach in placing, securing and wiring the system to your specific motorcycle. Although the installation is not difficult there are a number of steps that must be taken for the system to operate properly. We suggest you read the steps on the following page.

(Planning the Installation cont)

1. Check that your motorcycle battery is fully charged and that all electrical circuits are in good working condition.
2. Check the layout and construction of the motorcycle to decide what space is available to place the components.
3. Verify that no moving parts interfere with the components or their wires.
4. Do not route wires near sharp edges, which could cut wires and cause a short.
5. Do not mount components near extreme heat areas such as exhaust pipes
6. Allow at least an inch or two of slack at all connection points to reduce the chance that a connection will break apart due to vibration.
7. Do not drill any holes; mount the components with the provided Velcro and cable ties.

Mounting the Components

Select a suitable location under the seat or in a side cover. Mount the MCM using Velcro or cable ties. Make sure that it is not exposed or easily reached.

Note: Although the system will work in any position or mounting angle, try to avoid placing the MCM with the bell of the siren facing toward either side of the bike; this may reduce sensitivity

Routing the RFID Antenna

Make sure to place the RFID antenna as close as possible to where the remote will be when you are turning your key on to disarm the alarm. The RFID range depending on obstructions is 2-3 feet.

Routing the Antenna Wire

The MCM includes an 18" antenna wire. The first 12" is a coaxial wire; the remaining 6" is the actual antenna wire. When routing, try to avoid running the antenna along or near metal. For best performance, try to have at least a portion of the antenna wire exposed.

Wire Connections

The MCM is equipped with two connectors. One is for the main harness (HAR-1) and the other is for the optional accessories.

Accessory Harness

Note: If the perimeter sensor is armed for more than 10 days, the battery safeguard will automatically disable the perimeter sensor.

Plug in the accessory harness to the matching connector on the MCM. Each one of the connectors on the accessory harness is unique and can only be connected to the correct accessory. If no options are being used plug in the supplied dust cover.

Main Harness

If the optional factory connector kit is being used, please disregard this section of the instructions and refer to the instructions that were supplied with the factory connector kit.

The main harness consists of two harnesses. One is labeled (HAR-1) and the second is labeled (GEN-1). Plug in the white 4 pin connector from the (HAR-1) into the matching 4 pin connector from the (GEN-1). The (HAR-1) also has a waterproof connector that plugs into the MCM. The wires should be connected as follows:

HAR-1

Black wire with fuse and ring terminal – To battery Positive (+).

GEN-1

Black wire – To ground (-).

Grey wire – To turn signal power wire (Left).

Grey wire – To turn signal power wire (Right).

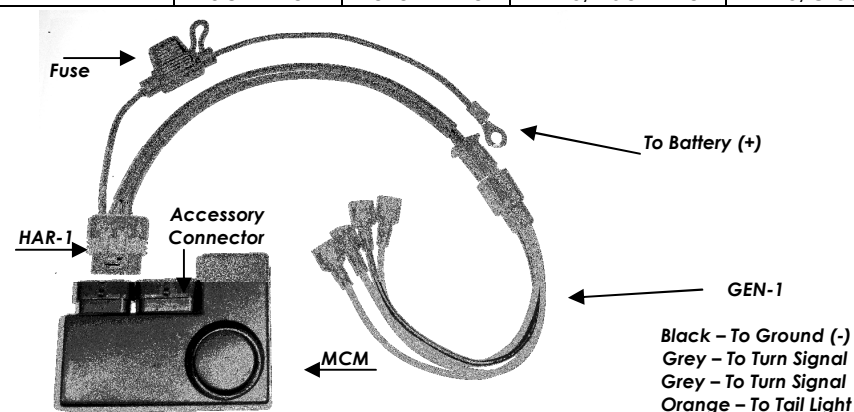
Orange wire – To tail light wire OR any other wire that is hot (+) when ignition is ON (NOTE: this is an input to the alarm this connection is not designed to flash the tail light).

Note: When the main harness (HAR-1) is plugged in, the siren should chirp and turn signals should flash twice. If the siren does not chirp; check the fuse, battery power (+) and ground (-) connections.

If the turn signal lights do not flash make sure that the grey wires are connected to the turn signal power (+) wires. Connecting these wires incorrectly may damage the system.

Color Codes:

	Ground (-)	Tail Light	Left Turn Signal	Right Turn Signal
Honda	Green wire	Brown wire	Orange wire	Blue wire
Kawasaki	Black wire	Red wire	Green wire	Grey wire
Suzuki	Black/White	Brown wire	Green or Black	Grey wire
Yamaha	Black wire	Blue wire	Green wire	Brown wire
Harley Davidson	Black wire	Blue wire	Brown wire	Purple wire
Ducati	Black wire	Yellow wire	White/Black wire	White/Green wire

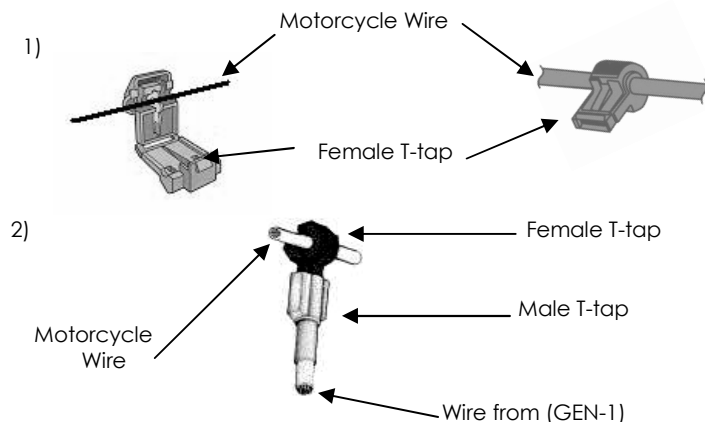


Note: Connect the (HAR-1) harness to the MCM only after installation is completed.

If the battery is to be removed, disconnect this connector first. Reconnect only after battery terminals are reconnected.

Using the T-tap Connectors

- 1) Place female T-tap connector over wire to be tapped, close and squeeze until it snaps.
- 2) Now slip male T-tap connector over hinged end of the female connector.



Operation Instructions

Violation Display

When the system is disarmed the turn signals will flash to indicate that there has been an alarm trigger. The lights will flash once to indicate that the system has been disarmed and additional flashes indicate the following trigger has occurred:

- 1 flash then 1 additional flash = Shock Trigger
- 1 flash then 2 additional flashes = Tilt Trigger
- 1 flash then 3 additional flashes = Perimeter Sensor Trigger
- 1 flash then 5 additional flashes = Ignition Trigger

Operation Instructions (Cont.)

Selecting Arming Modes

The SR-i800 can be manually armed and disarmed by using the button on the remote or automatically armed and disarmed by turning your ignition key on and off. When the alarm is first installed the alarm will arm 5 seconds after the HAR-1 harness is installed. The default setting is to arm with the perimeter sensor (SN-5) on.

Automatic Arming

By keeping the remote with you and turning your key on the alarm will recognize the remote and disarm the alarm. Once you turn the key off the alarm will wait 5 seconds and arm again.

Manual Arming- Press and hold the button for 1 second. When you manually disarm the alarm, you are turning the auto arm off. To turn auto back on simply arm the alarm with the remote and go back to using the key to arm and disarm.

Manual Arming with Perimeter Sensor- Press and hold the button for 5 seconds. The turn signals will flash normally then will flash left-right twice to confirm the system is armed with the Perimeter Sensor active.

While armed double tap the button on your remote and the alarm will chirp 1 time and the turn signal lights will flash 1 time. Now the alarm is manually disarmed and will not automatically arm. Now the alarm will only arm when you push and hold the button on the remote for 1 second. To return to automatic arming, simply arm the alarm and go back to using the key.

Setting Perimeter Sensor Default

1. To select between perimeter sensor on and off you must first double tap the button on the remote to manually disarm the alarm.
2. Next turn your ignition key on-off-on then double tap the button quickly and the siren should chirp 2 or 3 times to let you know whether the perimeter sensor is on or off.
Perimeter On: 2 Chirps
Perimeter Off: 3 Chirps
3. Turn your ignition key off to save and exit program mode.
4. Manually arming the Perimeter Sensor will not change the default. The next time the system arms automatically, it will go back to the default setting. (see Arming with Perimeter Sensor above)

Adjusting G sensor Sensitivity (Shock and Tilt Triggers)

The sensitivity is on a scale from 1-5 indicated by 1-5 chirps or turn signal flashes with 5 being most sensitive. (If equipped with optional siren)

1. Manually disarm the alarm by double tapping the button.
2. Turn your ignition key on-off-on and then hold the button, the siren should chirp to let you know its current sensitivity level. (Default is level 3)
3. Press the button to change sensitivity.
4. Turn ignition key off to save and exit. The siren will give 1 chirp to indicate the save.

Alarm Triggers

1. If bike is bumped, the siren will sound for 5 Seconds and the turn signal lights will flash.
2. If the bike is tilted, the siren will sound for 30 seconds and the turn signal lights will flash.
3. If the ignition switch is turned "on", the siren will sound for 30 seconds and the turn signal lights will flash.

Note: Once an alarm trigger has occurred and the siren duration is completed the system will remain armed and accept any additional triggers.

Manual Override Procedure

Programming Personal Override code

A personal override code will be a sequence of left – right - left turn signal flashes that can be used if the remote is lost to disable the alarm:

Enter programming Mode

1. Manually disarm system.
2. Turn ignition on – off – on – off – on.
3. Press and hold the button until the siren chirps 3 times.

Select number of flashes for Code

The code will be a combination of left-right-left-right turn signal count.

1. Turn on left turn signal to desired number of flashes. (up to 9)
2. Turn on right turn signal to desired number of flashes. (up to 9)
3. Turn on left turn signal to desired number of flashes. (up to 9)
4. Turn on right turn signal once to exit mode. (Will only register one flash)
5. The bike will flash the code in the same sequence entered.

***This feature is not compatible with every motorcycle on the market.**

***Some bikes are easier than others to program and operate this feature, make sure to test the code once it is programmed.**

Using code in case of lost remote

1. Turn ignition key to on position. Let alarm go thru a full cycle until the turn signal lights stop flashing. **(If siren is turned off, you do not need to wait for a full cycle)**
2. Enter code as originally entered.
3. When correct code is entered the alarm will deactivate

Perimeter Sensor (SN-5)

Mounting the SN-5

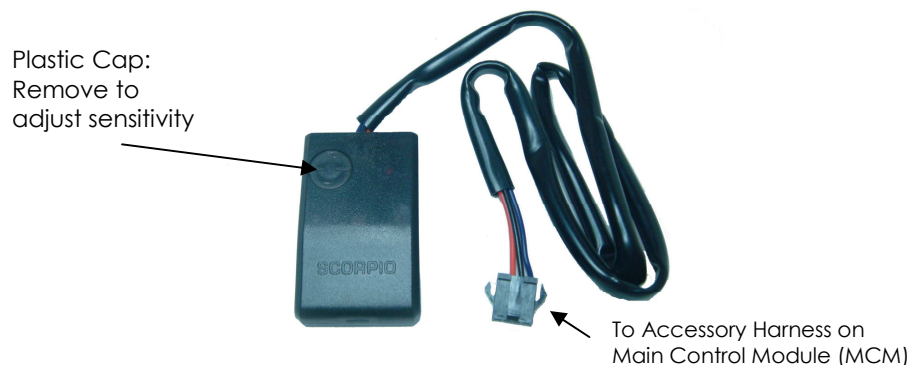
The Perimeter Sensor uses high frequency microwave technology to detect mass density movement around the motorcycle. The signal can transmit through the seat, fiberglass, leather and plastic, but not metal. It is recommended to place this sensor under the seat as close as possible to the center of the motorcycle. With the provided Velcro, you can mount this sensor on top of the battery or any flat surface, making sure that the top side of the sensor is facing upwards.

Adjusting the Sensor

Although the sensor is pre-set from the factory, it may be necessary to adjust the sensitivity to suit your specific application.

1. Stand at least 10' away from the motorcycle and arm the system.
2. Walk towards the motorcycle and try to lean over the top of it. Once the sensor detects movement, the siren will begin to chirp slowly. If you back away from the motorcycle, the siren will stop chirping. If you continue to move closer to the motorcycle, the siren will start to chirp faster and faster and then go into a full alarm.
3. Sensitivity can be adjusted by removing the plastic cap and tuning the adjustment screw. To increase sensitivity, turn adjustment screw clockwise. To decrease sensitivity, turn the adjustment screw counter clockwise.
4. The Perimeter sensor has an internal tuning control, which has been set at the factory. This tuning control should only be changed if the sensor can not be properly set as described in #3 above, please call Artronix' technical support.

Note: Do not turn sensitivity above half way. Doing so may cause false alarms.



Troubleshooting Guide

Will not arm/disarm or one way communication - system arms but icons do not change (SR-i800/900)	Remote is locked (SR-i800)	Unlock remote by pressing button 4 for two seconds.
	Power or ground not connected	Verify all connections are secure including t-taps, harnesses, battery positive and GEN-1 ground.
	Remote lost code	Follow instructions "Encoding the Transceiver".
	Blown fuse	Check fuse in HAR-1 and replace if necessary.
	Antenna not routed correctly	Check connections and re-route antenna so it is not blocked by metal components.
Turn signals do not flash	Verify connections	Check the grey wires from GEN-1 are securely connected to the turn signal power wires, orange wire to the taillight or license plate light and black wire to ground. If the motorcycle is equipped with an aftermarket tail section or tail light conversion kit, connect GEN-1 or factory harness in line to the stock wiring before it connects to the aftermarket pieces.
Siren will not trigger	Remote lost code	Follow instructions "Encoding the Transceiver".
	SR-i800/900/1100 RFID	Take the remote 10 feet away from the bike (outside RFID range) when testing alarm triggers.
	Silent Mode	Follow instructions in the manual to turn off/on the siren. SR-1100 requires optional siren to be installed.
Auto arming/disarming does not work	RFID Antenna	Verify RFID antenna is within 3 feet of the ignition and not blocked by metal components.
	Verify connections	Check the orange GEN-1 wire is connected to the taillight or license plate light, NOT the brake light, and is receiving 12 volts of power when ignition is switched on.
		If the motorcycle is equipped with an aftermarket tail section or tail light conversion kit, connect GEN-1 or factory harness in line to the stock wiring before it connects to the aftermarket pieces.
Perimeter Sensor not working	Verify connections	Check all connections including Perimeter Sensor plug at ACC-1, and ACC-1 at MCM.
	Check Sensor	Check that the sensor is picking up movement, red LED on the sensor will flash.
	Sensor Enabled	Follow the "Turning Perimeter Sensor on/off" procedure in the manual to check that the sensor is enabled.
	SR-i800/900/1100 RFID systems	Take the remote 10 feet away from the bike (outside RFID range) when testing sensor triggers.
Perimeter Sensor false triggers	Sensitivity adjustment	Turn the sensitivity all the way down (counter clockwise), then raise sensitivity one click at a time and test by moving hand over the unit until desired level is reached.
	Mounting location	Mount the Perimeter Sensor at least 6 inches away from the MCM to ensure proper functionality.
Ignition Disable does not function	Verify connections	Check the orange GEN-1 wire is connected to the taillight or license plate light, NOT the brake light, and is receiving 12 volts of power when ignition is switched on.
	Installation	Check that the unit is installed on the correct wire. Choose a fuel pump, fuel injection or ignition fuse wire and test to be sure it kills the ignition when interrupted.
System is unresponsive or false triggers after storage or extensive inactivity	Alarm left armed	Your Scorpio alarm will go into "battery safeguard mode" to try and protect the motorcycle's battery if left armed for extensive periods of time. Trigger the alarm to wake it up.
	Battery maintenance	If the motorcycle's battery was removed, charged or disconnected, check the alarm power wire to be sure it was re-installed to the battery positive. Always unplug HAR-1 from the MCM when adding or taking away power.
	Remote lost code	Follow instructions "Encoding the Transceiver".
MASTER RESET If the solutions listed to not correct the issue, perform a Master Reset. The reset procedure will clear any faults and return the software to factory settings. If the problem persists, call Aritrionix technical support. 1) Unplug HAR-1 from the MCM and leave it unplugged for two (2) hours. 2) Plug in HAR-1 to the MCM. The siren will chirp two (2) times. If the siren does not chirp, check that HAR-1 is properly connected to the battery positive. 3) Within six seconds, quickly turn ignition switch on and off three (3) times. 4) If done correctly and in the time allowed, the siren will chirp two (2) times to confirm the unit is in learn mode. If the siren does not chirp, check that the orange wire is installed correctly. 5) Press and hold button one (1) until the siren chirps two (2) times to confirm the MCM has learned the code. 6) Turn ignition on and off to exit learn mode.		

Limited Warranty

Limited Warranty

Products manufactured by Aritrionix, Ltd are warranted by the company to the original consumer purchaser to be free from defects in workmanship and materials. Should a product be found defective Aritrionix shall repair or replace the product or any part of the product that Aritrionix agrees is defective without charge during the first 12 months from the date of original purchase if the product is returned to Aritrionix freight prepaid and accompanied by a copy of the purchase receipt.

This warranty does not apply to any product damaged by accident, physical or electrical misuse or abuse, improper installation, alteration, any use contrary to its intended function, fire, flood, unauthorized repair or any other acts of God.

Aritrionix shall not be responsible for removal and/or reinstallation charges or theft of the motorcycle or its contents or any incidental or consequential damages caused by any failure of the product to function properly. Under no circumstances should this warranty or the product covered by warranty be construed as an insurance policy against loss or damage of any kind.

Aritrionix neither assumes nor authorizes any person or organization to make any warranties or assume any liability in connection with the sale, installation, or use of this product.

This completes Aritrionix warranty and no other warranty exists.

What should you do if you experience a problem with a Scorpio product?

First contact Aritrionix, Ltd **[Proof of purchase, installer and motorcycle information will be requested]**. If after assistance from our trained staff it is determined that the Aritrionix product may be faulty then you will be provided with detailed information on processing a warranty claim and instructions on how to send the product into our repair office. All warranty claims must contain a return material authorization (RMA). Aritrionix will not accept any package that has not been approved for warranty repair/exchange and been issued an RMA. **Shipping charges may apply.**

FCC Notice

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

For technical assistance, please contact Aritrionix:

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